



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Air System Components, Inc. dba PennBarry**  
605 Shiloh Rd.  
Plano, TX 75074

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series MU MUFFAN Steel Rooftop Supply Fans**

**APPROVAL DOCUMENT:** Drawing No. **08-01543**, titled "MUFFAN Steel Belt Drive & Direct Drive Roof Vent", sheets 1 through 8 of 8, dated 04/09/2012, with revision A dated 02/25/2013, prepared by the manufacturer, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Carlos M. Utrera, P.E.



*[Signature]*  
08/26/2015

NOA No. 12-1205.09  
Expiration Date: September 3, 2020  
Approval Date: September 3, 2015  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **08-01543**, titled "MUFFAN Steel Belt Drive & Direct Drive Roof Vent", sheets 1 through 8 of 8, dated 04/09/2012, with revision A dated 02/25/2013, prepared by the manufacturer, signed and sealed by Luis R. Lomas, P.E.

**B. TESTS**

1. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94,  
along with marked-up drawings and installation diagram of MUFFAN Steel Belt Drive & Direct Drive Roof Vents, prepared by Architectural Testing, Inc., Test Report No. **B7885.01-801-18**, dated 06/28/2012, with Revision 1 dated 08/21/2012, signed and sealed by Shawn G. Collins, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations prepared by Luis R. Lomas, P.E., dated 01/26/2015, signed and sealed by Luis R. Lomas, P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC and of no financial interest issued by L. Roberto Lomas, P.E., dated 01/26/2015, signed and sealed by Luis R. Lomas, P.E.

  
08/26/2015

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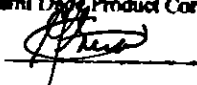
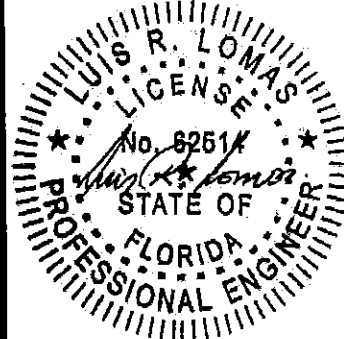
Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 12-1205.09  
Expiration Date: September 3, 2020  
Approval Date: September 3, 2015

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD FRAMING OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD. (FBC 2003.8.4.2)
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FOR ANCHORING INTO WOOD FRAMING USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
6. FOR ANCHORING INTO CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
7. FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
8. ALL FASTENERS TO BE CORROSION RESISTANT.
9. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD -- MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE -- MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
  - C. METAL STRUCTURE: STEEL 1/8" THICK (MIN.), 36KSI OR ALUMINUM 6063-T5 1/8" THICK
10. THIS APPROVAL IS FOR STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISMAND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
11. UNITS WERE NOT TESTED FOR WATER PENETRATION PER PBC, TAS 100(A).

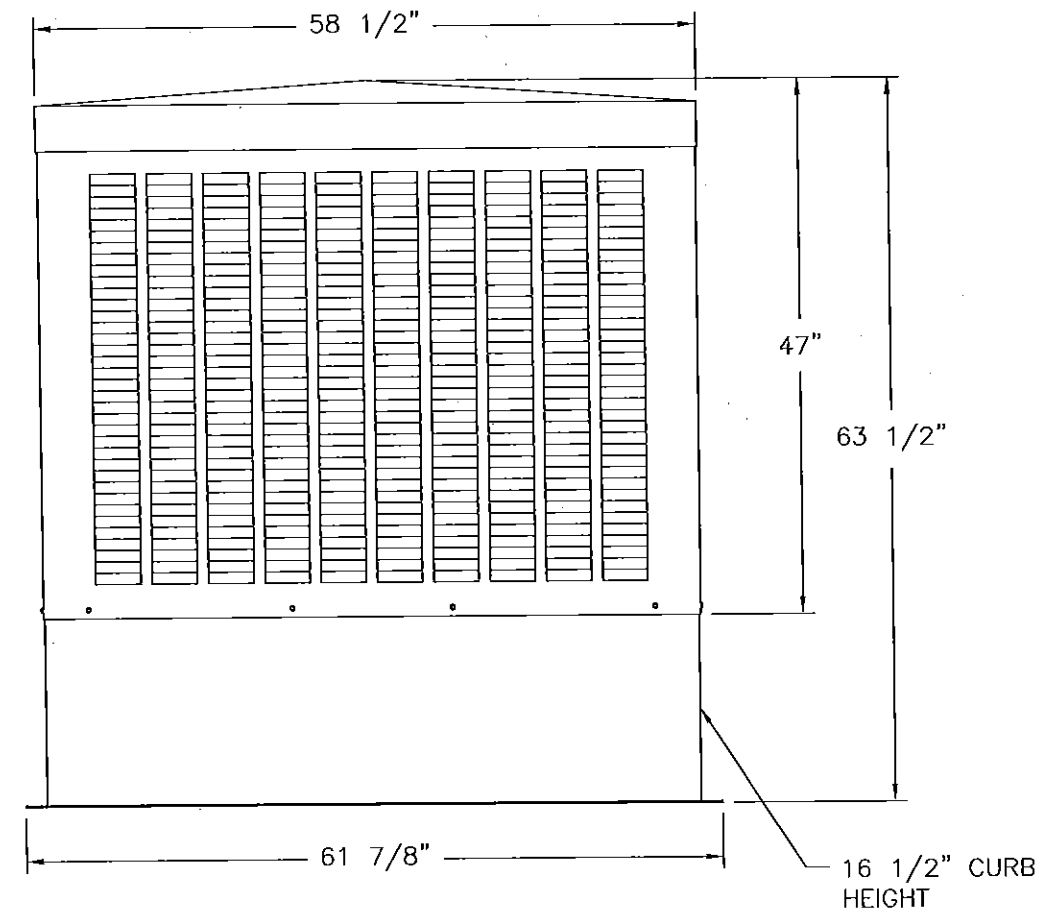
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	02/25/13	R.L.

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SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2	ELEVATIONS
3 - 4	B.O.M AND SECTIONS
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7 - 8	COMPONENTS

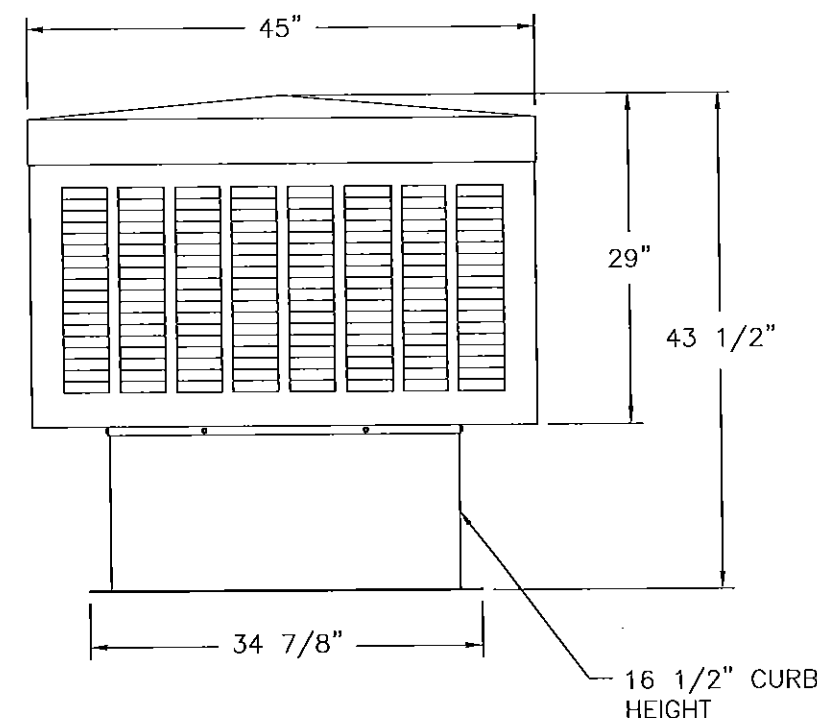
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	MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT GENERAL NOTES			
	DRAWN: R.L.	DWG NO. 08-01543		REV A
	SCALE NTS	DATE 04/09/12		SHEET 1 OF 8

SIGNED: 01/23/2015

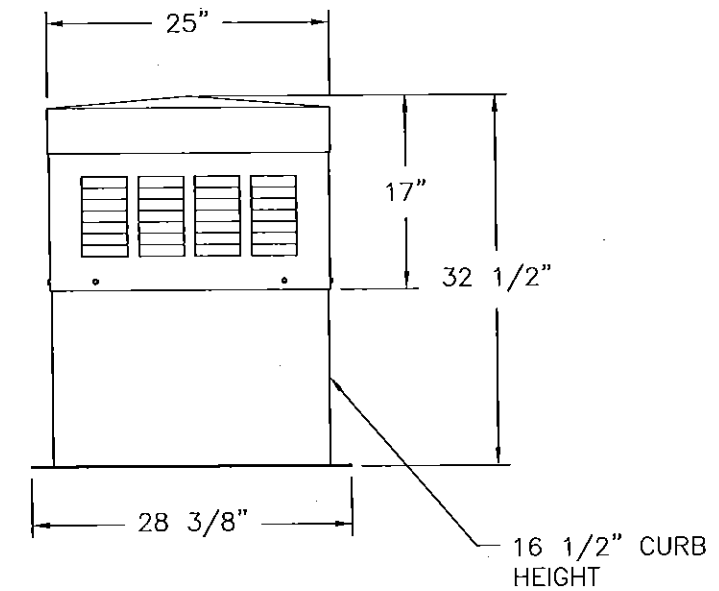
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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MU6020 MUFFAN BELT DRIVE  
ELEVATION VIEW



MU5018 MUFFAN BELT DRIVE  
ELEVATION VIEW



MU10 MUFFAN DIRECT DRIVE  
ELEVATION VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±70.0PSF	LARGE AND SMALL MISSILE IMPACT

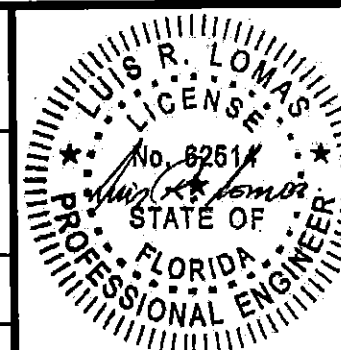
MISSILE LEVEL D, WIND ZONE 4, AND HVHZ.

APPROVED MODELS					
NAME	DRIVE	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)
MU10	DIRECT DRIVE	25	21	17"	82
MU20	DIRECT DRIVE	43	22	17"	129
MU30	DIRECT DRIVE	43	22	17"	156
MU3010	BELT DRIVE	28 1/2	28 1/2	24	139
MU4012	BELT DRIVE	36 1/2	36 1/2	27	211
MU4015	BELT DRIVE	36 1/2	36 1/2	27	221
MU5018	BELT DRIVE	45	45	29"	306
MU6020	BELT DRIVE	58 1/2	58 1/2	47	770

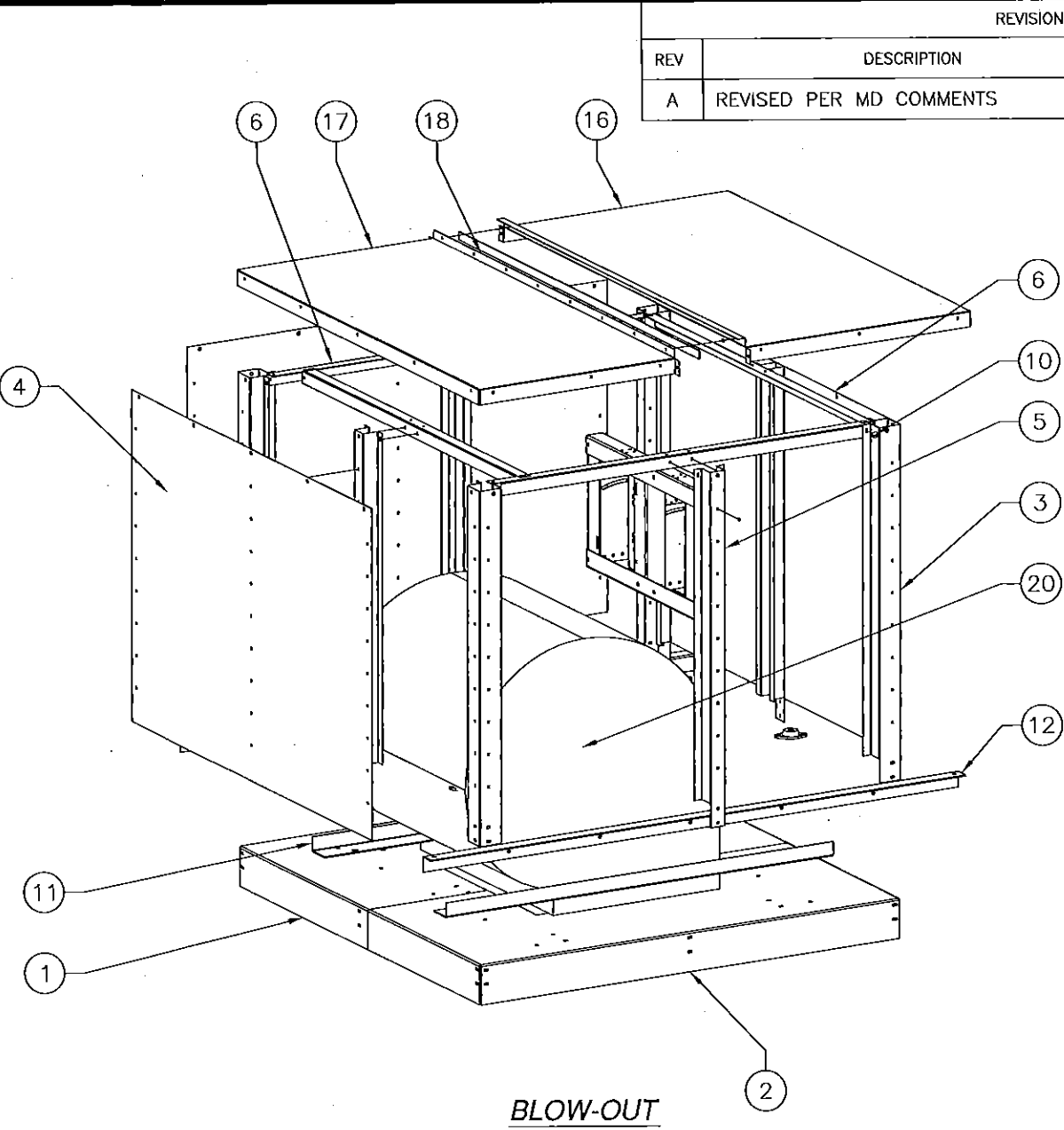
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Florida Building Code  
Date 09/03/2020  
NOAH 12/12/15-19  
Miami Data Product Control  
By [Signature]

PennBarry 605 SHILOH RD PLANO, TX 75074		
MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT ELEVATIONS		
DRAWN: R.L.	DWG NO. 08-01543	REV A
SCALE NTS	DATE 04/09/12	SHEET 2 OF 8

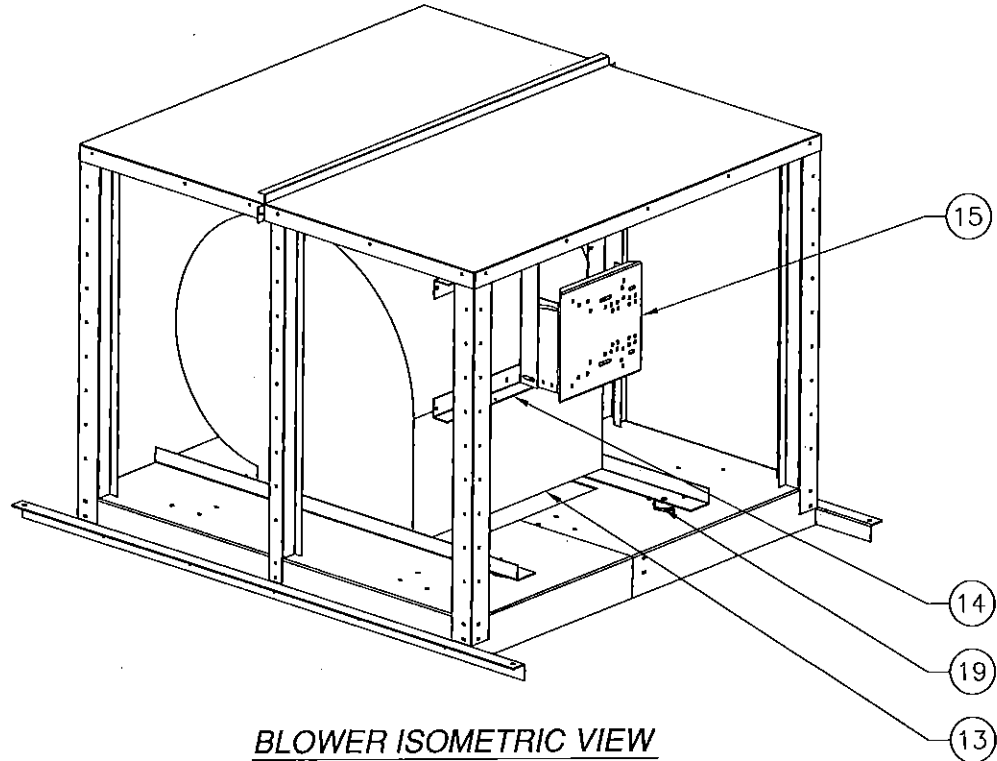
SIGNED: 01/23/2015



BILL OF MATERIALS				
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	13672-M	BASE LONG	PENNBARRY	14 GA GALVANIZED STEEL
2	13673-M	BASE SHORT	PENNBARRY	14 GA GALVANIZED STEEL
3	13680-M	CORNER	PENNBARRY	14 GA GALVANIZED STEEL
4	13676-M	PANEL	PENNBARRY	16 GA GALVANIZED STEEL
5	13677-M	CENTER SUPPORT	PENNBARRY	18 GA GALVANIZED STEEL
6	17378-M	PANEL SUPPORT	PENNBARRY	14 GA GALVANIZED STEEL
7	55316-0	RIVSERT 1/4-20	PENNBARRY	
8	55500-0	WHIZ NUT 1/4-20	PENNBARRY	
9	55696-0	WHIZ BOLT 1/2-20 X 3/4	PENNBARRY	
10	56478-0	TRACK BOLT 1/4-20 X 5/8	PENNBARRY	
11	13674-0	BLOWER SUPPORT ANGLE	PENNBARRY	10 GA GALVANIZED STEEL
12	17293-0	LIFTING ANGLE	PENNBARRY	10 GA GALVANIZED STEEL
13	19784-0	MOTOR MOUNT	PENNBARRY	10 GA GALVANIZED STEEL
14	19786-0	MOTOR SUPPORT ANGLE HORIZONTAL	PENNBARRY	14 GA GALVANIZED STEEL
15	19785-0	MOTOR PLATE SUPPORT	PENNBARRY	12 GA GALVANIZED STEEL
16	17320-M2	CAP WITH FLANGE	PENNBARRY	16 GA GALVANIZED STEEL
17	17320-M1	CAP	PENNBARRY	16 GA GALVANIZED STEEL
18	63106-0	GASKET	PENNBARRY	
19	63004-0	VIBRATION ISOLATOR	PENNBARRY	
20		BLOWER	PENNBARRY	



BLOW-OUT



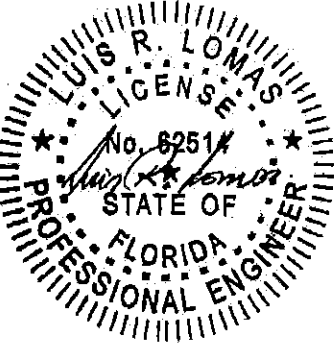
BLOWER ISOMETRIC VIEW

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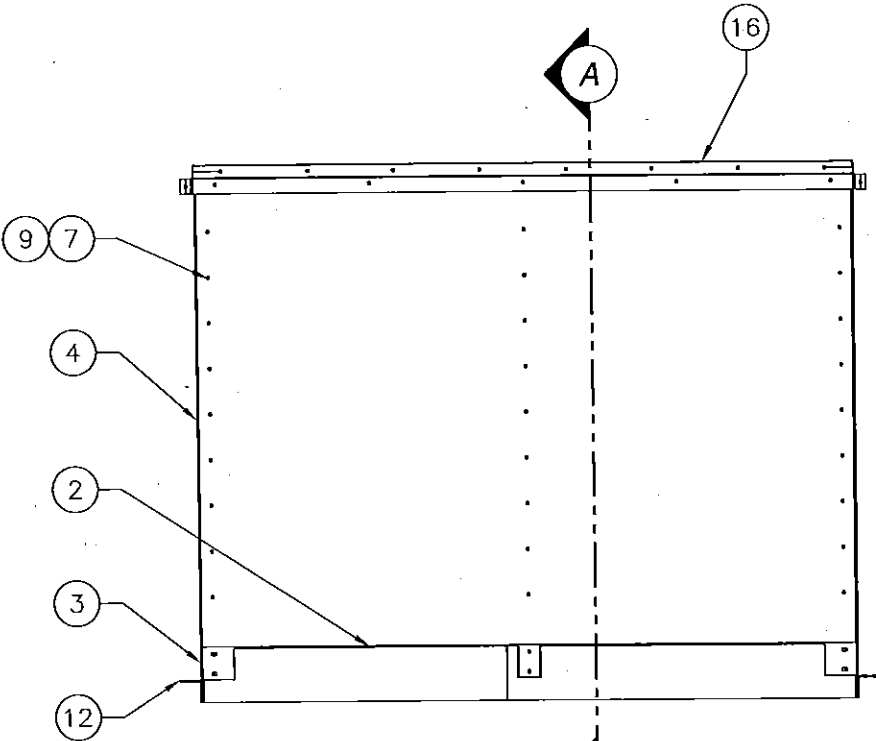
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Date 04/03/2015  
NOA# 12-1205-09  
Miami Dade Product Control  
By *[Signature]*

PennBarry 605 SHILOH RD PLANO, TX 75074		
MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT BILL OF MATERIALS AND SECTIONS		
DRAWN: R.L.	DWG NO. 08-01543	REV A
SCALE NTS	DATE 04/09/12	SHEET 3 OF 8

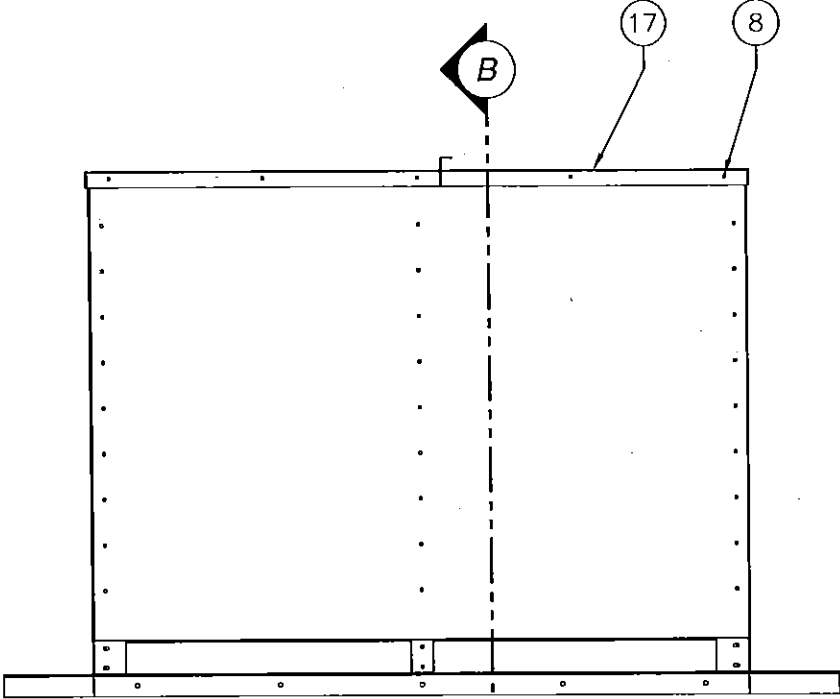
SIGNED: 01/25/2015



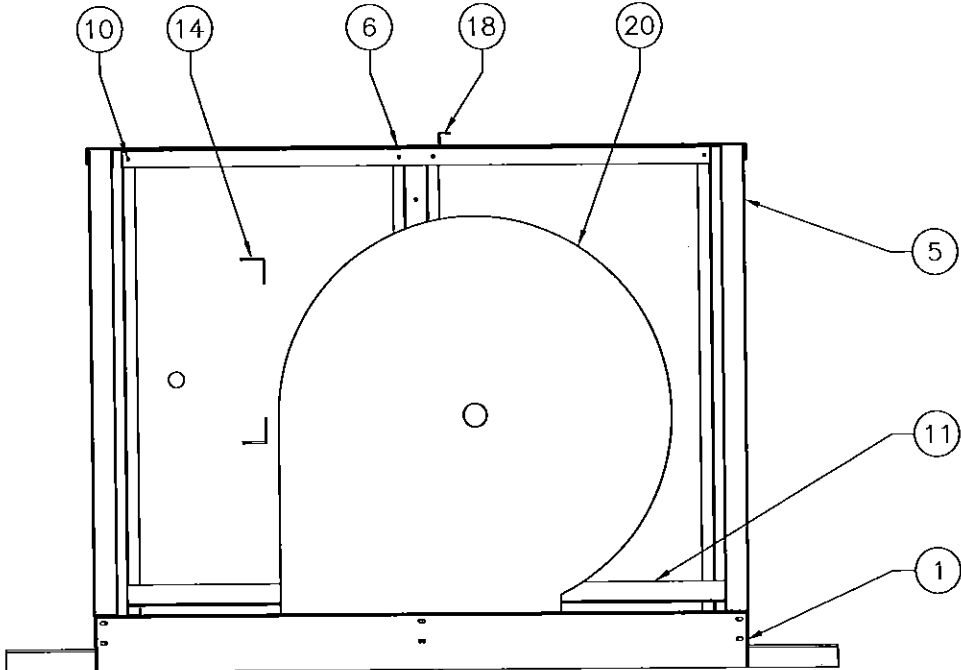
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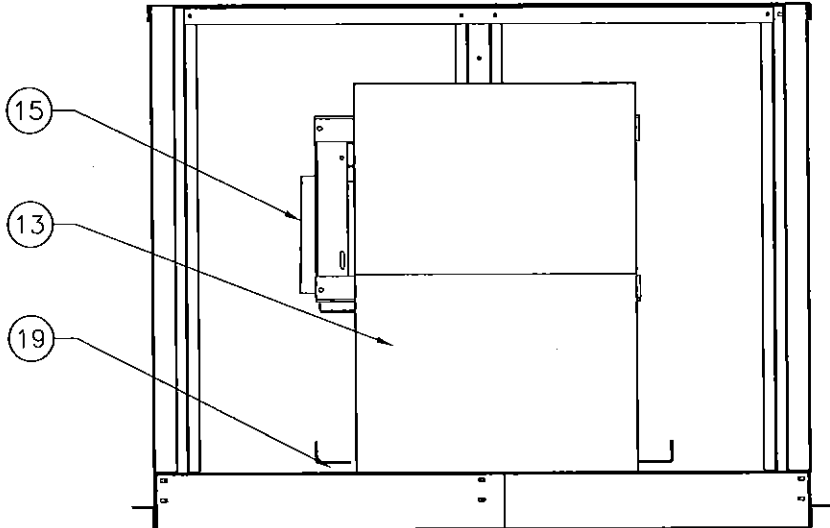
FRONT VIEW



SIDE VIEW



SECTION A-A



SECTION B-B

Approved as complying with the  
Florida Building Code  
Date 09/03/2015  
By NOAH 12-12-15-19  
Miami Design Product Control

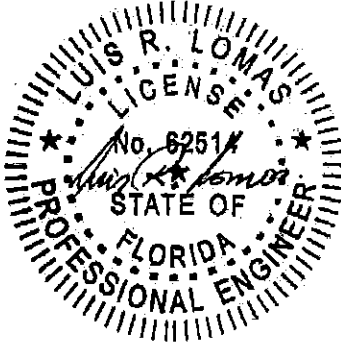
PennBarry

605 SHILOH RD  
PLANO, TX 75074

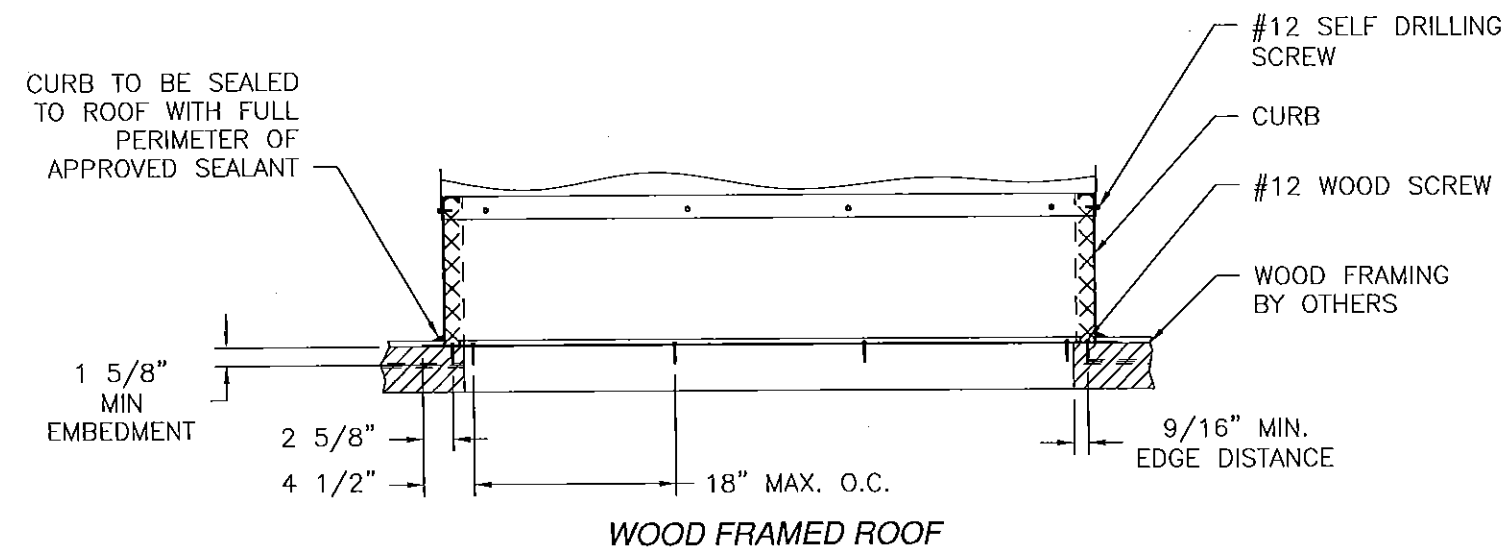
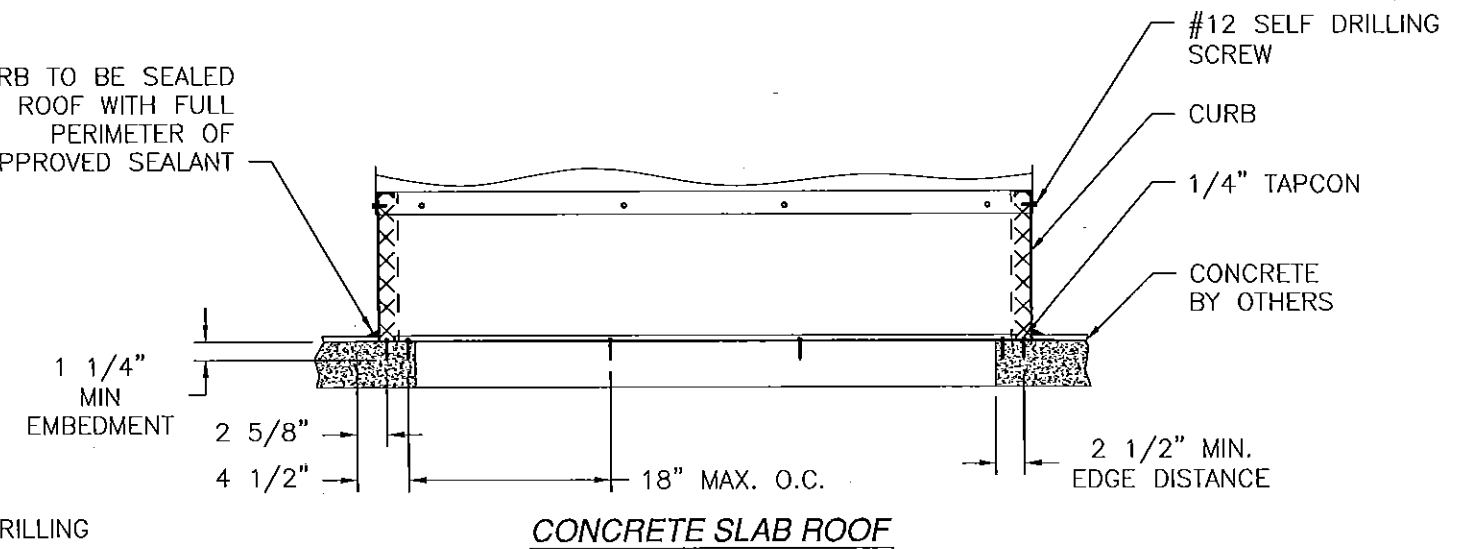
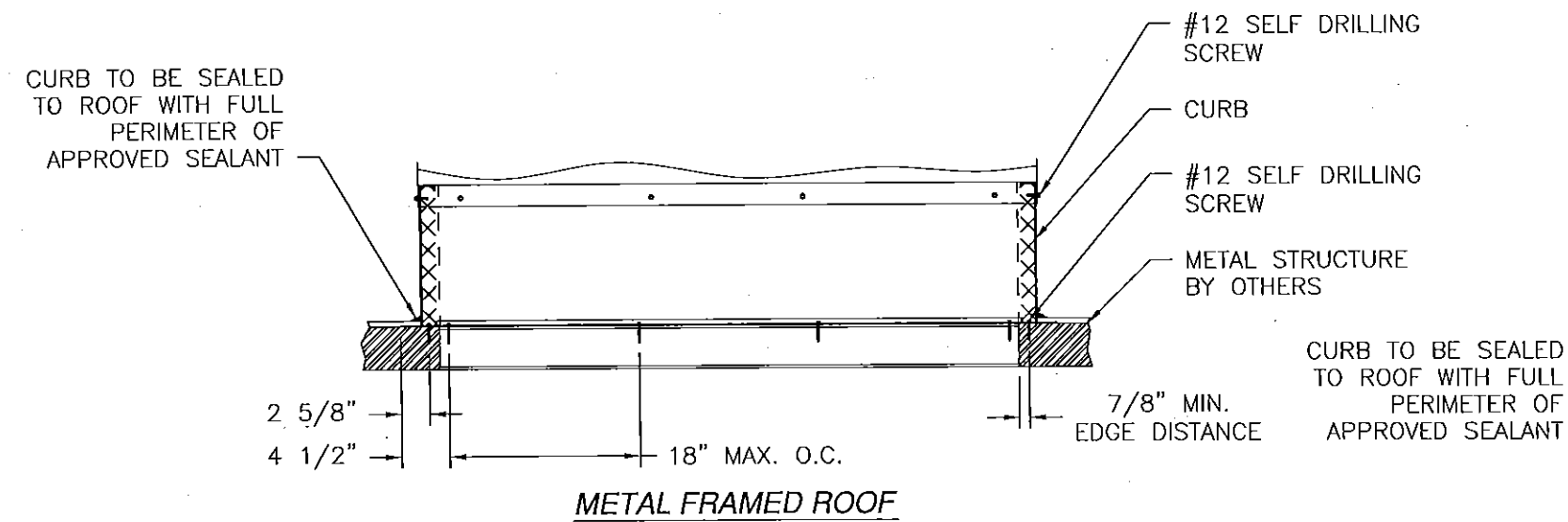
MUFFAN  
STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT  
SECTIONS

DRAWN: R.L.	DWG NO. 08-01543	REV A
SCALE NTS	DATE 04/09/12	SHEET 4 OF 8

SIGNED: 01/25/2015



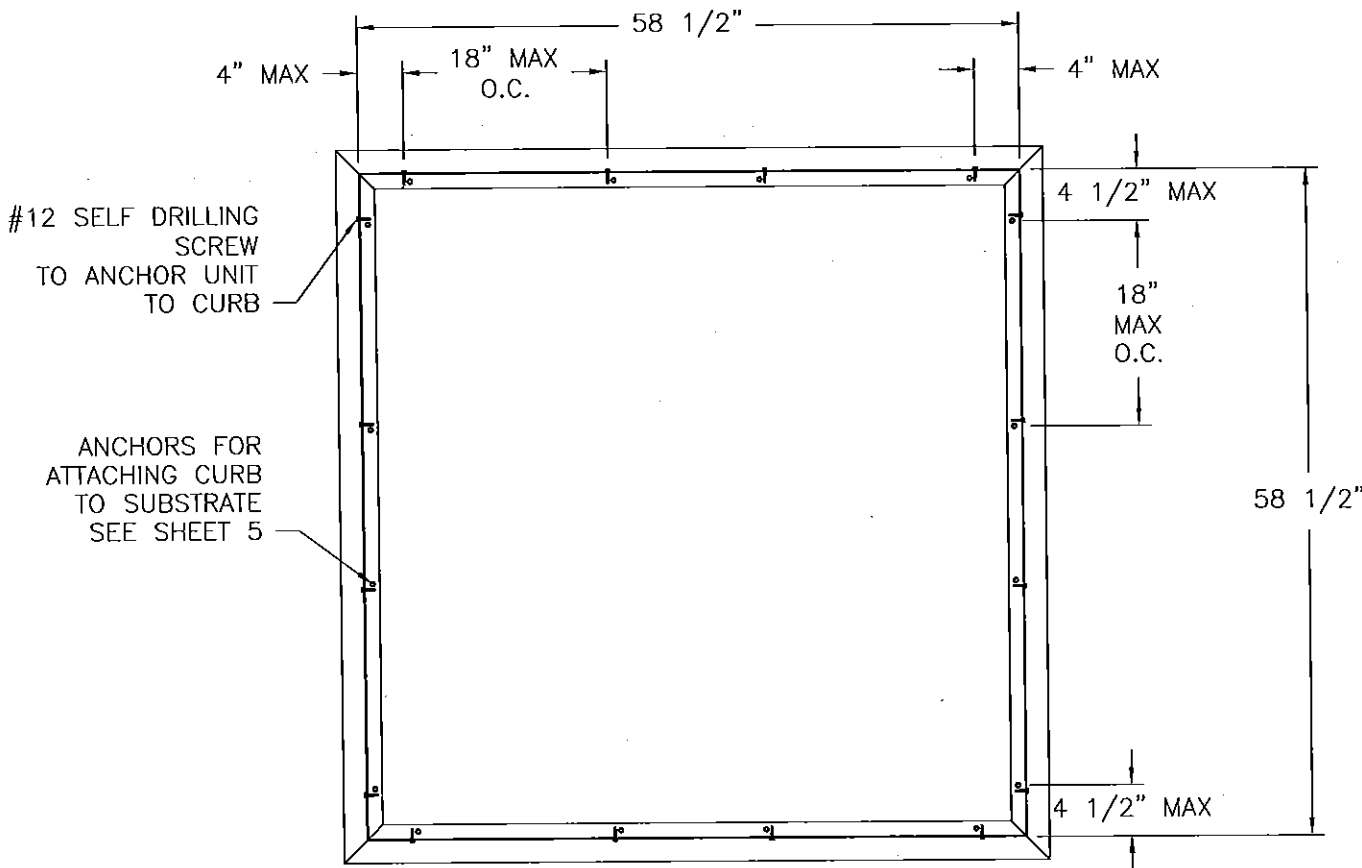
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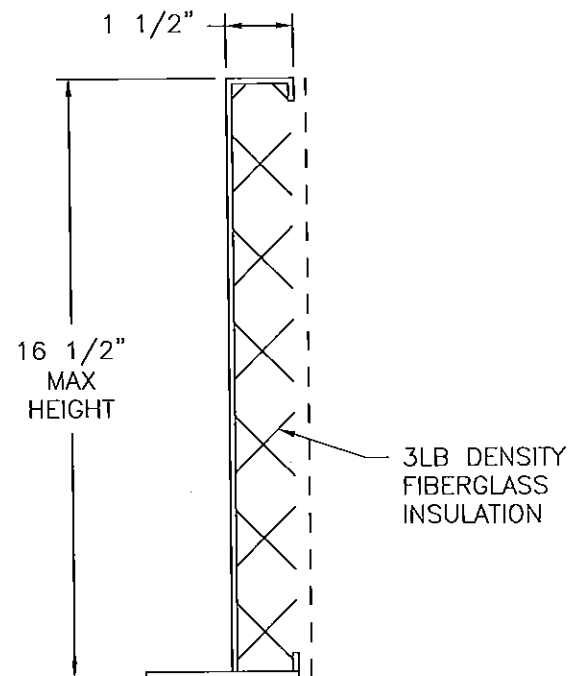
- NOTES:
1. ALL FOUR SIDES OF CURB AND BASE ARE ANCHORED IDENTICALLY.
  2. ROOF CURB IS INSTALLED TO ROOF FIRST. ONCE CURB IS INSTALLED FAN IS ATTACHED TO CURB USING #12 SELF DRILLING SCREWS AS SHOWN ABOVE.
  3. SEE SHEET 6, COMPONENTS FOR ROOF CURB CONSTRUCTION.
  4. UNITS MAYBE INSTALLED WITH ALUMINUM 3003-H14 CURB.

SIGNED: 01/23/2015

Approved as complying with the Florida Building Code Date: 08/03/2015 NOAH 12-1205-09 Miami Dade Product Control By: <i>[Signature]</i>	PennBarry 605 SHILOH RD PLANO, TX 75074			
	MUFFAN STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT INSTALLATION DETAILS			
	DRAWN: R.L.	DWG NO. 08-01543		REV A
	SCALE NTS	DATE 04/09/12		SHEET 5 OF 8

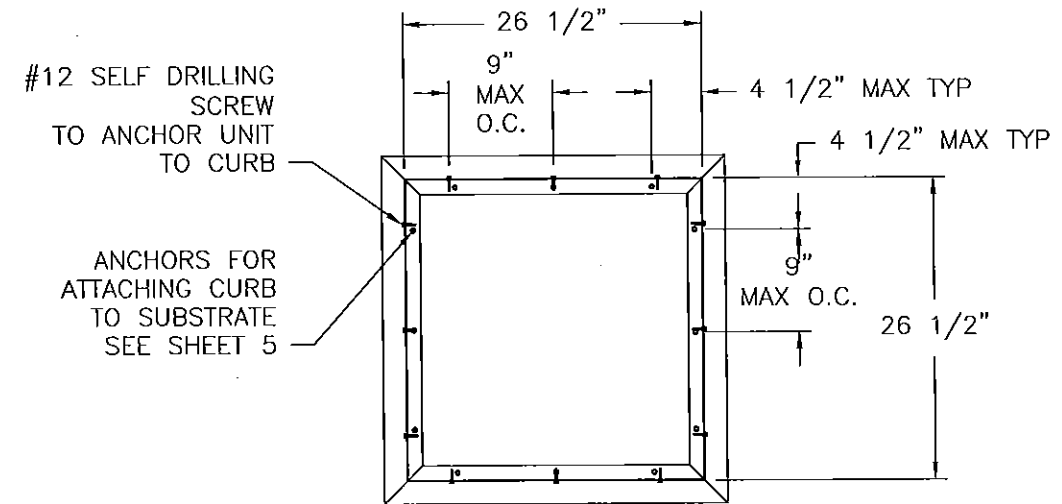


**MU6020 PLAN VIEW INSTALLATION DETAIL**  
INTERIOR COMPONENTS NOT SHOWN FOR CLARITY

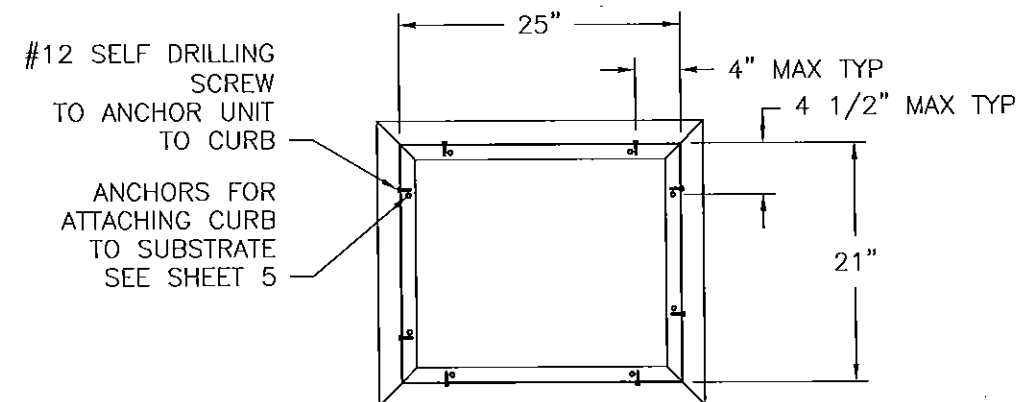


**ROOF CURB**  
ALUMINUM 3003-H14 10GA. .125" THICK  
MI VALUE: X = 51.1390  
Y = .7384

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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**MU5018 PLAN VIEW INSTALLATION DETAIL**  
INTERIOR COMPONENTS NOT SHOWN FOR CLARITY



**MU10 PLAN VIEW INSTALLATION DETAIL**  
INTERIOR COMPONENTS NOT SHOWN FOR CLARITY

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NOA# 12-1205-09  
Miami Dade Product Control

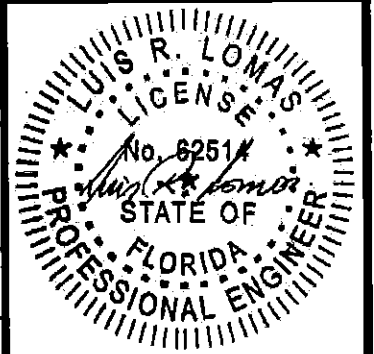
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PennBarry

605 SHILOH RD  
PLANO, TX 75074

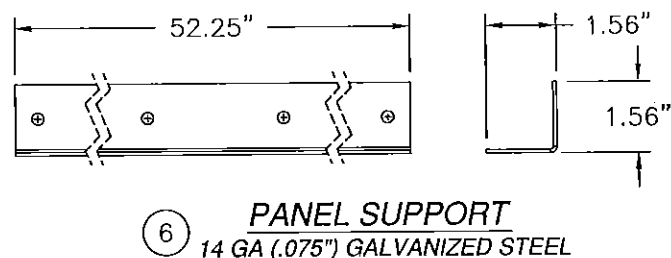
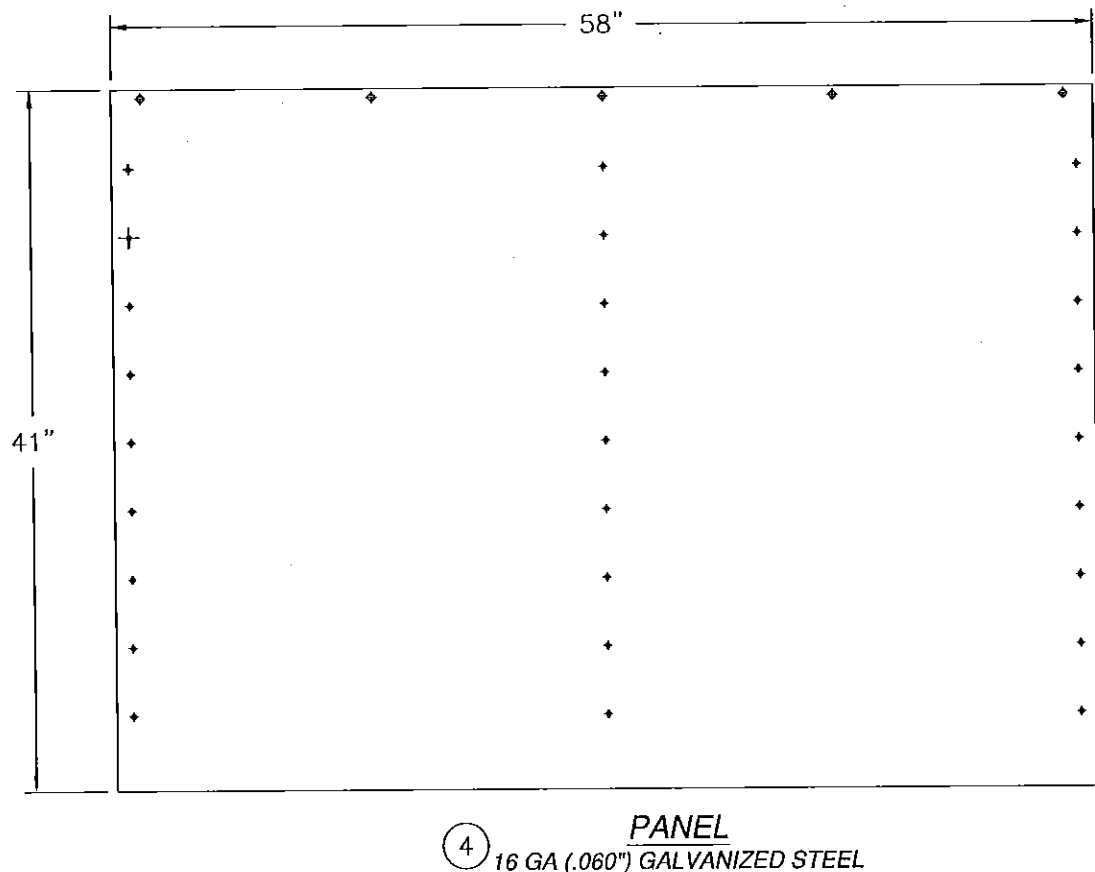
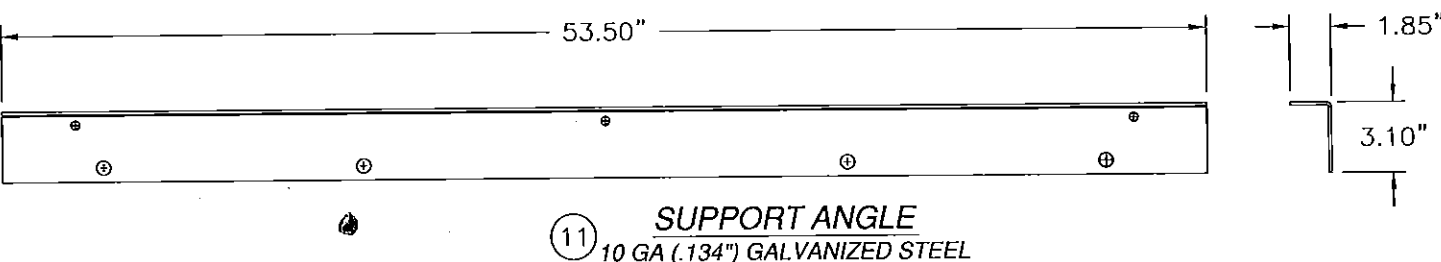
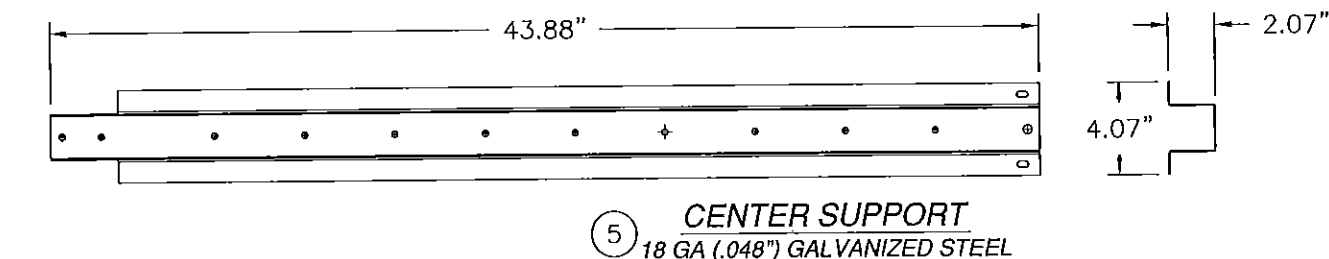
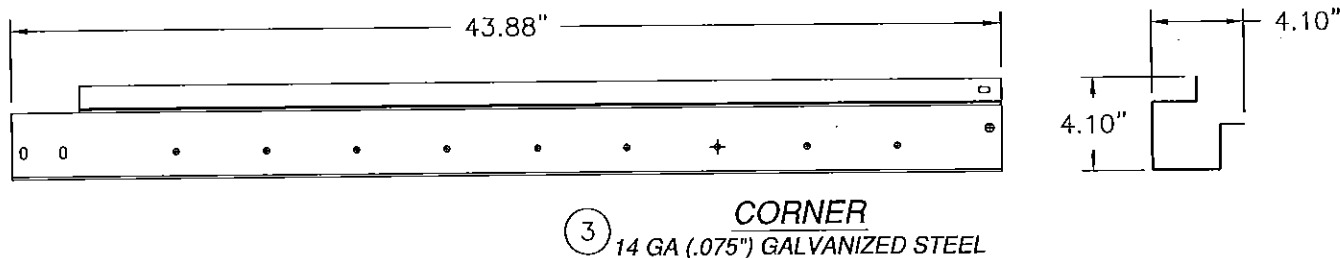
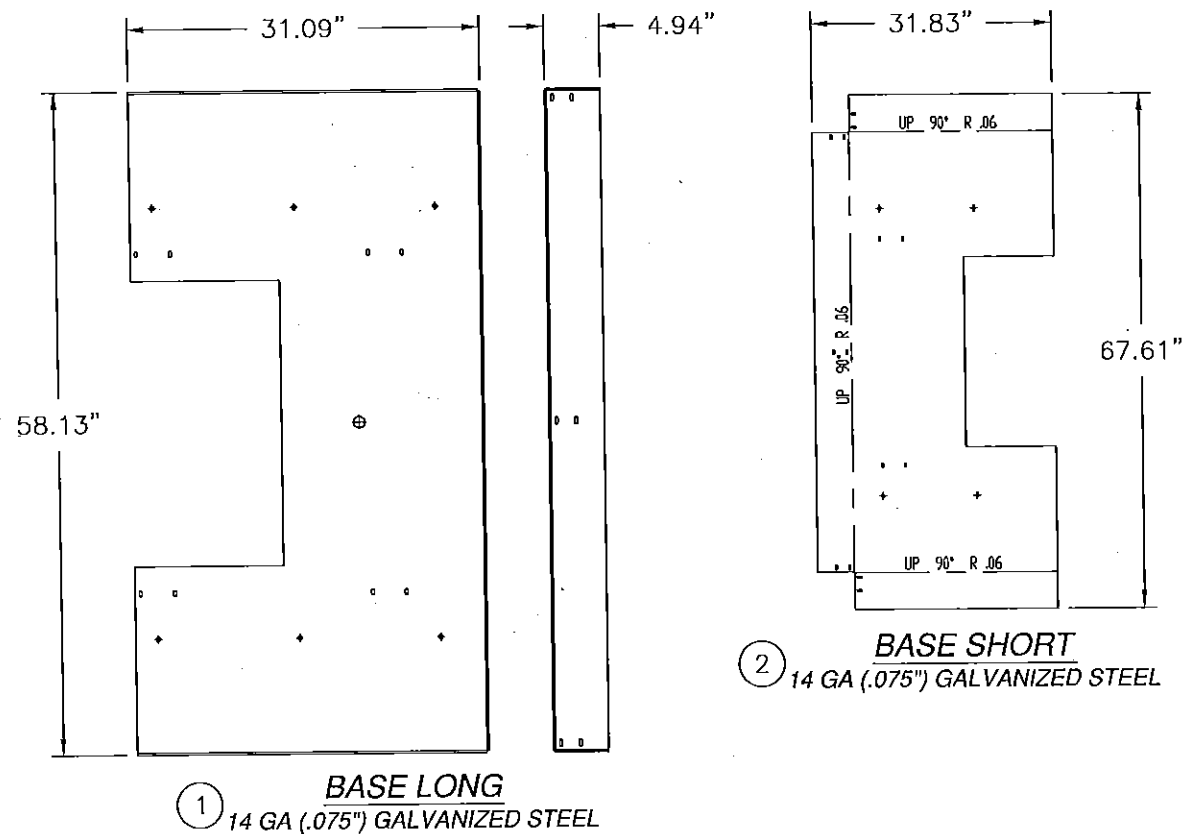
MUFFAN  
STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT  
INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-01543	REV A
SCALE NTS	DATE 04/09/12	SHEET 6 OF 8





REVISIONS			
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SIGNED: 01/23/2015

Approved as complying with the Florida Building Code  
Date 09/03/2015  
NOA# 12-1705-09  
Miami Dade Product Control

By [Signature]

PennBarry  
605 SHILOH RD  
PLANO, TX 75074

MUFFAN  
STEEL BELT DRIVE & DIRECT DRIVE ROOF VENT COMPONENTS

DRAWN: R.L.	DWG NO. 08-01543	REV A
SCALE NTS	DATE 04/09/12	SHEET 7 OF 8

LUIS R. LOMAS  
LICENSED PROFESSIONAL ENGINEER  
No. 82514  
STATE OF FLORIDA

